

- System Performance
- ODC2 JUSTIS IP Migration
- LXML to GJXDM Conversion
- Notification System

COMPLETED PRIOR TO ISSUANCE OF A STATEMENT OF WORK - 04/11/04

Earl Gillespie Information Technology Liaison Officer JUSTIS Program Manager Information Technology Advisory Committee May 10, 2004





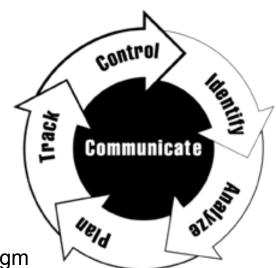
#### **SEI DEFINITION OF RISK**

Risk is the possibility of suffering loss.

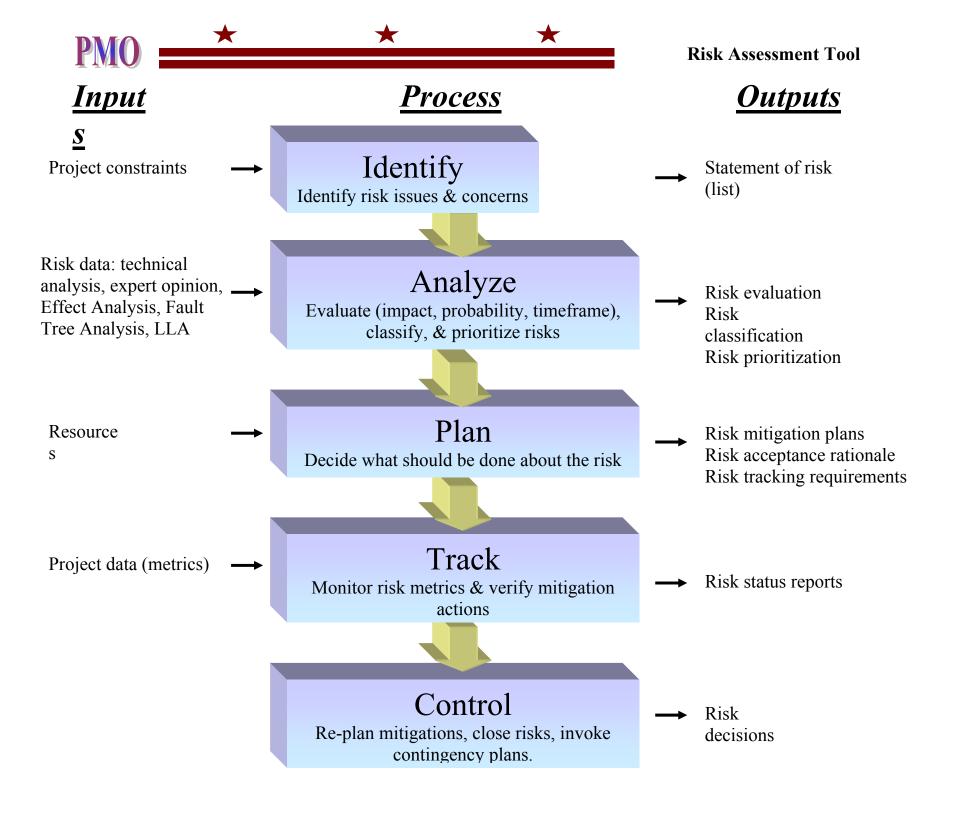
In a project, the loss describes the impact to the project which could be in the form of diminished quality of the end product, increased costs, delayed completion, or failure.

**RISK MANAGEMENT** is an engineering practice with processes, methods, and tools for managing risks in a project. It provides a disciplined environment for proactive decision-making to:

- Assess continuously what can go wrong (risks).
- Determine what risks are important to deal with.
- Implement strategies to deal with risks.

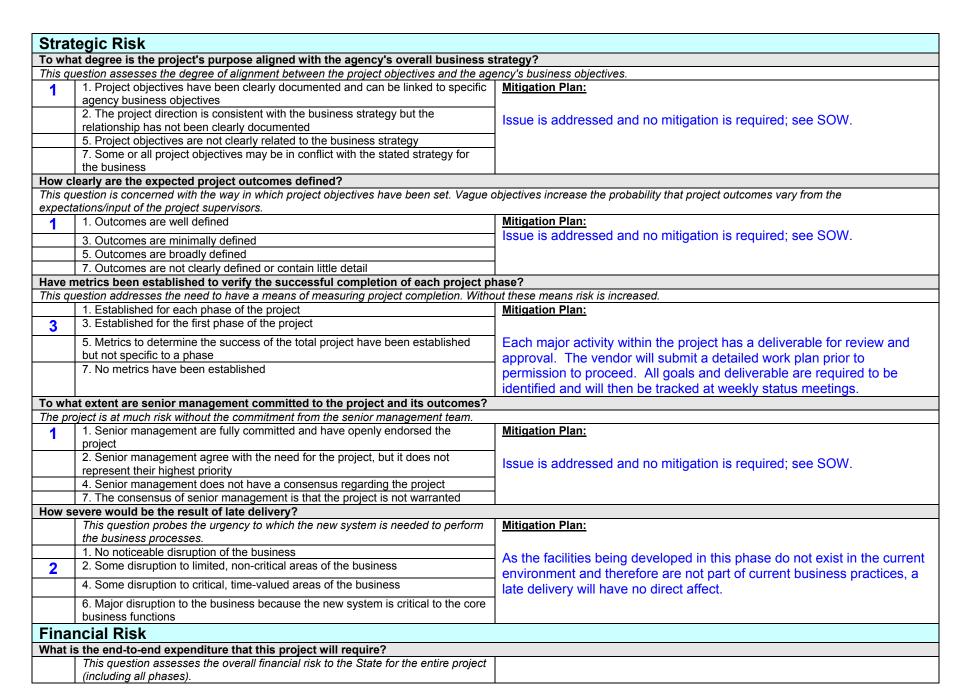


The SEI Risk Management paradigm















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9. There is neither a payback period nor apparent justification on the basis of	vsis without placing an arbitrary value on both human life and the
	,
public safety Value	e of a catastrophe which cannot be defined, not occurring.
s the payback time for the project?	
cessary to determine if the length of time to pay off the project investment is short enough t	o justify continuing the project.
	ation Plan:
2. The payback period exceeds 2 years but less than 4 years	
	e is addressed and no mitigation is required; see SOW.
The payback period will be greater than 4 years      The payback period has not been quantified	e is addressed and no miligation is required, see 50%.
at degree have existing expenditures met budgeted amounts?	
uestion will assess the current budget performance to date.	
	ation Plan:
	auon Fian.
Most expenditures have been within the budget amounts with a small	
percentage exceeding budget amounts Issu	e is addressed and no mitigation is required; see SOW.
6. Some significant expenditures have exceeded budget amounts with others	
remaining within budget	
Existing expenditures have consistently exceeded budget amounts or clear	
budgets have not yet been established	
vendor well established in the business community with a strong financial backgrou	na?
uestion is intended to measure the vendor's viability in the community.	etter Blen.
1. The vendor is well established and in good financial condition <u>Mitig</u>	ation Plan:
3. The vendor is well established, but financial condition is unknown	
	competitive procurement process will require a well established
	dor in good financial condition.
ect Management Risk	J. 1
ne project management team have relevant experience?	









1	Members of the project management team have experience leading projects	Mitigation Plan:		
	of similar size and complexity			
	4. Members of the project management team have had exposure to projects of similar size and complexity but not in lead roles	Issue is addressed and no mitigation is required; see SOW.		
	7. Members of the project management team have had limited exposure to	-		
	projects of similar size and complexity and generally lack detailed knowledge	_		
	Members of the project management team have no experience with projects			
	of similar size and complexity			
To wh	at extent has a workplan been developed for the entire project lifecycle?			
This q	uestion determines if the proper resource levels have been ascertained throughout t	the whole project.		
	A detailed workplan has been created using an industry accepted	Mitigation Plan:		
	methodology and experience from projects of similar size and scope			
2	2. A workplan has been created using detailed project estimates; but not based	A detailed work plan has been developed for Phase 3.1. However,		
	on a comparable project	although the Blueprint and Technical Design specifications are detailed,		
	3. A workplan has been created using general areas of the project lifecycle, but			
	there is not a clear understanding yet of the needed resources	the second phase, 3.2, cannot be detailed until both Phase 3.1		
	7. No workplan exists at this time.	deliverables are complete.		
	at degree have critical checkpoints and milestones been established for this p			
	uestions determines if established checkpoints have been made for the project. This			
1	Clearly measurable and achievable milestones with firm dates have been asset of the parties are in this parties.	Mitigation Plan:		
	created throughout the entire project lifecycle			
	3. Milestones, although not clearly measurable, with firm dates have been set for	Issue is addressed and no mitigation is required; see SOW.		
	part of the project			
	Milestones have been created for the project but dates are not firmly set     No milestones or checkpoints exist at this time			
	7. No milestories of checkpoints exist at this time			
What	is the total elapsed time of the project from start to finish?			
	r projects typically are at more risk than shorter ones. This is because more influenc	ing factors may be introduced throughout the life of the project.		
	1. 1 - 6 months	Mitigation Plan		
2	2. 7 - 12 months			
	3. 13 - 24 months	The initial phase is just over 3 months. However, as stated in the		
	6. More than 24 months	question above, until the deliverables are completed, there can be no		
	o. Word than 24 months			
		estimate of the length of the second phase. Experience points to a		
		performance period longer than 6 months.		
Have	scope changes occurred which appear to exert pressure on schedule demand	s?		
i his q	uestion will determine if the business requirements of the project have recently chan			
	1. No scope changes have occurred	Mitigation Plan:		
2	2. Yes, but only small changes have been made and have been well			
	documented	Scope changes have been very few and very small. As the PMT has		
	Yes, significant scope changes have been made and have been well documented	completed review of the plan and the SOW, there will be almost no		
	7. Yes, significant changes have been made and have not been clearly documented	opportunity for future scope changes until the results of Phase 3.1 are i		
To wh	at degree have 'open issues' been tracked and included as part of ongoing ma	anagement processes?		









1	There is proven method of issue tracking and resolution currently in place and is widely used by all parties	Mitigation Plan:		
	There is a method of issue tracking and resolution currently in place and is generally used by all parties	Issue is addressed and no mitigation is required; see SOW.		
	3. Open issues are dealt with on an item-by-item basis and are not tracked using a standard method			
	7. There is no clear issue tracking or resolution approach in use on the project			
Is the	project development team organized and deployed to a single location?			
	roject contains more risk if the development sites are spread out in various locations.			
	1. All development team members are together with daily interactions with the users	Mitigation Plan:		
	5. All development team members are co-located but have limited user contact			
7	7. Development team members are in multiple locations but meet regularly	The requirements for a regional implementation require regional participation. As a consequence, the SQC and PMT are in dispersed		
	9. Development team is located off site and rarely get together as a whole	locations. As the SHIELD effort has no "home" in one particular location		
		and there is neither room nor budget for on-site contractual support, the		
		vendor(s) will not be on the SHIELD office primary location.		
T	and decrees and the development and very ability and increased with defined	vendor(s) will not be on the Shield office primary location.		
	nat degree are the development and user skill requirements well defined?			
Triis q	ruestion explores the level of detail to which skill requirements have been defined.	Milliantian Diam.		
	Skill requirements with corresponding time frame requirements have been also the decomposite of the project.	Mitigation Plan:		
	clearly documented for all phases of the project  2. Skill requirements have been clearly documented for all phases of the project			
2		The over-all timeframe is defined as 100 working days. However until		
	but do not include corresponding time frame requirements	the PMT reviews and approves the detailed work plan, the time		
	4. Skill requirements are loosely defined for the project	requirements within the plan will not be defined.		
	7. Skill requirements are vague or not well defined for the project	requirements within the plan will not be defined.		
	hnology Risk			
Is the	re a plan for ensuring that deliverables meet the need of the users?			
This q	uestion intends to evaluate whether or not users are sufficiently included in the most	important phase, final delivery.		
1	1. There is a plan to ensure that the needs of the users are thoroughly met	Mitigation Plan:		
	The plan for verification of user deliverables is nearly complete			
	5. The plan for ensuring user deliverables is in the conceptual phase	Issue is addressed and no mitigation is required; see SOW.		
	9. There is no plan for ensuring that deliverables meet users needs			
	thoroughly have the technology options been evaluated?			
This q	luestion explores how the options for all aspects of the hardware and software enviro	nment have been selected.		
	Experienced technical specialists performed a comprehensive evaluation of options using a proven methodology	Mitigation Plan:		
2	Experienced technical specialists made recommendations based on prior experiences	The technology is new and the experienced technical participants have		
	5. Recommendations for the options were made by key functional personnel	every reason to believe the technology will be exactly as needed and will		
	7. A detailed evaluation has not yet been performed	perform exactly as required.		
What	is the knowledge of the proposed technology environment?	harran arman) an radianan		
This	uestion is concerned with the degree of knowledge available to the project team of the	ne chosen hardware and operating system		
THIS	1. The proposed platform is well understood by the project team and any	Mitigation Plan:		
	technical difficulties that emerge are likely to be handled in house	miliyalion Fian.		
2	2. There are parts of the platform that are very clearly understood, however, aspects of the new platform will be seen for the first time.	The search engine technology is very well understood by those with		
	The platform is not well known to the project team but specialized expertise is readily available from vendors or constituents	experience in the field. However this level of application is a new endeavor. Vendors, the city's OCTO and the JUSTIS staff have been		
	Treadily divaliable from vehicles of constituents	,		









	7. The platform is not well know to the project team and specialized expertise is	preparing for this implementation.		
	not easily available	proparing for the implementation.		
Do the	key technologies appear to be the appropriate foundation given the system d	esign?		
This q	uestion assesses the degree to which the chosen technologies will be maintainable a	and upgradeable.		
1	There is every reason to believe that the proposed technology represents a solid foundation for the near future.	Mitigation Plan:		
	Certain components may reach the end of their lifecycle before the system does, but there is a high probability that there will be an upgrade path for replacement	Issue is addressed and no mitigation is required; see SOW.		
	5. Certain components may reach the end of their lifecycle before the system does and there does not appear to be a logical upgrade path			
	7. Various components appear to have reached the end of their lifecycle and more advanced technology exists in the market or technology foundation has yet to be determined			
	nany existing computer systems must the project system interact with?			
This q	uestion addresses the number of different computer interfaces which must be manag			
	1. A limited number of interfaces	Mitigation Plan:		
	2. A moderate number of interfaces			
5	5. A large number of interfaces	There are a large number of servers and interfaces involved in JUSTIS. They		
	6. The number of interfaces is not known	and their owner organizations have been involved in the ITAC for over four years. The ITAC will continue to coordinate and mange this effort.		
To wh	at extent will the new system enable de-installation of the existing system?			
	uestion will assess the degree to which the proposed system replaces an existing sy	stem process.		
•	The new system will completely replace an existing system or an existing system does not exist	Mitigation Plan:		
	2. The new system will be a new layer that will lead to the eventual replacement of an existing system	There is no reason to destroy the base functionality that JUSTIS has		
3	3. The new system will be a new layer and there is not a business case for the elimination of any existing systems	provided. To the contrary, many may find the existing approaches are familiar and comfortable, and best for existing business processes.		
	4. The new system will be run in parallel to an existing system			
	is the vendor's ability to implement the technology?			
This q	uestion measures the risk associated with vendor experience or lack of it.			
1	The vendor has successfully completed a number of previous implementations	Mitigation Plan:		
	3. The vendor has successfully completed some previous implementations (1-3)     5. The vendor has limited experience with this technology	Issue is addressed and no mitigation is required; see SOW.		
	7. The vendor has not previously implemented this technology			
	nge Management / Operational Risk			
	s the acceptance testing plan being developed?	and an advated		
	uestion explores the assumptions about the way in which testing has been planned a			
1	Acceptance planning is being developed using an industry accepted methodology with comprehensive input from user experts	Mitigation Plan:		
	Acceptance planning is being developed by using an industry accepted methodology with limited input from user experts	Issue is addressed and no mitigation is required; see SOW.		
	Acceptance planning is being developed by using an approach based upon prior experiences but no formal methodology			
	5. Acceptance planning has not yet been completed			







	e a project transition plan for this project?			
This m	easures the ability for the agency to assume responsibility for the continued operation	ons of system or future steps of the project lifecycle.		
	There is a clearly defined transition plan and the agency has activity planned and budgeted for the future of the project or system.	Mitigation Plan:		
5	5. There is a clearly defined transition plan and the agency has accepted this plan but has not yet budgeted funds to support this project or system.	The only mitigation is for a long-term funding stream to be generated. At this time the only alternatives are to ask the CJCC to provide or to shut		
	7. There is a transition plan in work.     9. There is neither a transition plan nor the agency acknowledgement that they	the system down.		
	have funding responsibilities			
is the	proposed hardware/software environment in production already within the org	ganization?		
	restion addresses the additional problems which might be posed by introducing new			
1	<ol> <li>The environment is in production and well established</li> <li>The environment is currently in use in production but not well established and</li> </ol>	Mitigation Plan		
	subject to changes  4. The environment is currently in use for development efforts but has not yet been established in production	Issue is addressed and no mitigation is required; see SOW.		
	5. Hardware/software environment is not currently in use			
How c	learly defined are the system operating procedures			
	uestion evaluates the thoroughness of system documentation for maintenance purpo	oses.		
1	Well defined with easy, well documented, legible procedures	Mitigation Plan:		
<u> </u>	Maintenance procedures exist and some documentation exists			
	Maintenance procedures exist and some documentation exists     Maintenance procedures exist but documentation is limited	Issue is addressed and no mitigation is required; see SOW.		
		_ issue is addressed and no miligation is required, see 50 W.		
	System maintenance procedures are not clearly defined or documented			
	everely would business be impacted by a system failure?  uestion probes the reliance, which the business will place upon the system when it is	s operational.		
	everely would business be impacted by a system failure?	s operational.  Mitigation Plan:		
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	everely would business be impacted by a system failure?  Lestion probes the reliance, which the business will place upon the system when it is  1. Minimal impact- system is not critical to daily business functions  3. Moderate impact - system is critical to business, but a well documented, automated contingency approach exists  5. Significant impact - system is critical to the business and contingency plan relies on work-around	After implementation, the tools, particularly the search engine and the link analysis, are expected to become integral to new business		
This qu	everely would business be impacted by a system failure?  Justion probes the reliance, which the business will place upon the system when it is  1. Minimal impact- system is not critical to daily business functions  3. Moderate impact - system is critical to business, but a well documented, automated contingency approach exists  5. Significant impact - system is critical to the business and contingency plan	Mitigation Plan:  After implementation, the tools, particularly the search engine and the link analysis, are expected to become integral to new business processes. Loss after implementation could be critical. Disaster Recovery Plans will be updated to address even temporary loss of the system or facilities. Coordination with OCTO has already been initiated		
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	3. Probably, staff seem enthusiastic but there has been no formal evaluation of	Mitigation Plan:		
	their enthusiasm or detailed knowledge of the change			
	5. Unclear, only limited or informal feedback from staff has been received	Issue is addressed and no mitigation is required; see SOW.		
	9. No, firsthand feedback clearly indicates reluctance to the change	Tissue is addressed and no milityation is required, see SOW.		
	taff numbers be reduced as a result of implementing the system?			
This q	uestion determines if employees will be threatened by the new system. If so, risk of t	users not accepting the system increases.		
1	There will not be a reduction in staff as a result of the new system	Mitigation Plan:		
	2. A small number of reductions is expected to isolated areas of the organization			
	5. Numerous reductions are expected to several levels of the organization	Issue is addressed and no mitigation is required; see SOW.		
	6. Staffing projections have not been completed			
Will m	ultiple business organization units be affected by the new system?			
	uestion will determine the number of business units that will be affected by the new s	system. The more business units involved, the increased risk of the project.		
	There will only be one business organization affected	Mitigation Plan:		
	2. Multiple business units within the same agency will be affected			
7	7. Multiple business units in several agencies will be affected	Any number of units within any number of agencies will be affected.		
	Multiple business units across several levels of state government (e.g. state, county, local) will be affected	Documentation and training will reduce impact. However, the fact the		
		user community has been involved since the inception of the project will be the greatest boo to reduce impact.		
To wh	lat degree are changes to the current business processes being managed?	be the greatest boo to reduce impact.		
	uestion assesses how well changes to current process have been planned.			
,	1. There is a well documented plan in place for the redesign of the changed	Mitigation Plan:		
	processes with a detailed rollout schedule			
	3. There is a well documented plan in place for the redesign of the changed	Con guarties and mitiration shave		
	processes but a detailed rollout schedule has not yet been developed	See question and mitigation above.		
5	5. New process changes have been considered but are not clearly defined and			
	documented			
	6. Process changes have not yet been considered			
What	is the level of user involvement in the project?			
This q	uestion measures the level of user involvement with the notion that less user involve	ment increases risk of success.		
1	1. The users are involved and have a permanent presence on the project team.	Mitigation Plan:		
	3. The users are available for consultation and to provide functional advice.			
•	7. The users are minimally engaged on the project and clarification of	Issue is addressed and no mitigation is required; see SOW.		
<u> </u>	requirements is difficult.			
	9. The users are not involved in the project.			

	Strategic	Financial	Project Management	Technology	Operational	Total
Total Question Answered (without N/A)	5	4	8	7	11	35
Sum of answer numbers for each category	8	6	18	15	33	80
Score (Sum of Question #/number of questions answered)	1.6	1.5	2.6	2.1	3.0	2.2